

Feedback — Week 2 Quiz

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You submitted this quiz on **Thu 21 May 2015 9:45 PM PDT**. You got a score of **37.00** out of **37.00**.

Question 1

Which of the following describes the purpose of the Android IntentService, according to the videos:

Your Answer	Score	Explanation
<input type="checkbox"/> It provides a framework for invoking remote method calls synchronous and asynchronously	✓ 1.00	
<input type="checkbox"/> It provides a generalization of the HaMeR framework that encapsulates a Handler implemented within a Service and enables Activities to pass Messages to the Handler	✓ 1.00	
<input checked="" type="checkbox"/> It provides a framework for programming Started Services that concurrently process commands expressed as Intents	✓ 1.00	
<input type="checkbox"/> It provides a framework that offers a client-service interface that allows extended two-way conversations between one or more clients and the Service	✓ 1.00	
Total	4.00 / 4.00	

Question Explanation

Please see the videos on the Android IntentService from week #2.

Question 2

Which of the following are key differences between an IntentService and a regular Service, according to the videos:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> An IntentService stops itself automatically when there are no more Intents to process, whereas a regular Service must stop itself manually.	✓ 1.00	
<input type="checkbox"/> A regular Service processes Intents sent by clients in a background Thread, whereas an IntentService processes requests in the UI Thread	✓ 1.00	
<input type="checkbox"/> A regular Service stops itself automatically when there are no more Intents to process, whereas an IntentService must stop itself manually	✓ 1.00	
<input checked="" type="checkbox"/> An IntentService processes Intents sent by clients in a background Thread, whereas a regular Service processes requests in the UI Thread	✓ 1.00	
Total	4.00 / 4.00	

Question Explanation

Please see the videos on the Android IntentService from week #2.

Question 3

Which of the following are reasons for deploying a Service to run in a different process than its clients, according to the video:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> It may make the application more robust if Service failures don't affect the client	✓ 1.00	
<input type="checkbox"/> It allows the Service to invoke Java Native Interface (JNI) methods	✓ 1.00	
<input type="checkbox"/> It optimizes communication between the client and the Service	✓ 1.00	

☒ To allow the Service to be shared by multiple applications ✓ 1.00

Total 4.00 / 4.00

Question Explanation

Please see the videos on the Android IntentService from week #2.

Question 4

Which of the following are correct examples of the patterns implemented by Android IntentService framework, according to the videos:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> The Activator pattern	✓ 1.00	
<input type="checkbox"/> The Broker pattern	✓ 1.00	
<input checked="" type="checkbox"/> The Command Processor pattern	✓ 1.00	
<input checked="" type="checkbox"/> The Active Object pattern	✓ 1.00	
Total	4.00 / 4.00	


Question Explanation


Please see the videos on the Android IntentService from week #2.


Question 5

Which of the following statements describe the Android Messenger communication mechanism, according to the video:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> A Messenger is a generalization of the Android HaMeR framework	✓ 1.00	

☒ A Messenger can be used for communicating to or from both Started and Bound Services  1.00

☐ A Messenger is a generalization of the Android AsyncTask framework  1.00

☐ A Messenger can only be used for communicating to or from Bound Services  1.00





Total 4.00 / 4.00

Question Explanation

See the videos on Programming Bound Services with Messengers

Question 6

Which of the following define what a Bound Service is, according to the videos:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> It offers a client/server interface that allows extended two-way conversations between 1 or more clients and the service	 1.00	
<input type="checkbox"/> It enables applications to perform background operations and publish results on the UI thread without having to manipulate threads and/or handlers	 1.00	
<input checked="" type="checkbox"/> It runs only as long as at least one client remains bound to it and is automatically destroyed when all clients unbind	 1.00	
<input type="checkbox"/> It performs a single operation on behalf of the client that started it and often does not return a reply to the client	 1.00	
Total	4.00 / 4.00	

Question Explanation

Please see videos on "Programming Bound Services With Messengers" in week 2

Question 7

Which of the following methods inherited from Service **must** be overridden to create a Bound Service, according to the videos:

Your Answer		Score	Explanation
<input type="checkbox"/> onUnbind()	✓	1.00	
<input checked="" type="checkbox"/> onBind()	✓	1.00	
<input type="checkbox"/> onStartCommand()	✓	1.00	
<input type="checkbox"/> onCreate()	✓	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see video "Programming Bound Services With Messengers" from week 2

Question 8

Which of the following describe the reason(s) why UniqueIDGeneratorService defines the makeIntent() factory method, according to the videos

Your Answer		Score	Explanation
<input type="checkbox"/> To ensure that the UniqueIDGeneratorActivity and the Service run in the same process	✓	1.00	
<input type="checkbox"/> To return an IBinder associated with the request Messenger when an Activity binds to the Service	✓	1.00	
<input checked="" type="checkbox"/> To shield the UniqueIDGeneratorActivity from details of how the Service is implemented and resolved at runtime	✓	1.00	
<input type="checkbox"/> To ensure that the UniqueIDGeneratorActivity and the Service run in the different processes	✓	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see videos on "Programming Bound Services With Messengers" from week 2

Question 9

Which of the following are motivations for using a pool of threads in the UniqueIDGeneratorService, according to the video:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> It can improve performance on a multi-core device	✓ 0.25	
<input type="checkbox"/> It ensures that the random UUIDs are stored persistently and uniquely	✓ 0.25	
<input type="checkbox"/> It ensures the UniqueIDGeneratorActivity doesn't block synchronously waiting for the service results	✓ 0.25	
<input checked="" type="checkbox"/> It enables multiple client requests to run concurrently	✓ 0.25	
Total	1.00 / 1.00	

Question Explanation

Please see videos on "Programming Bound Services With Messengers" from week 2

Question 10

Which of the following are the ways in which a Bound Service can interact with a client, according to the video:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> Interactions can be type-specific and method-oriented	✓ 1.00	
<input type="checkbox"/> Interactions can use the Android HaMeR framework directly	✓ 1.00	

<input type="checkbox"/> Interactions can directly use Android Linux inter-process communication mechanisms	✓	1.00
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<input checked="" type="checkbox"/> Interactions can be generic and message-oriented	✓	1.00
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Total	4.00 /
	4.00

Question Explanation

Please see videos on "Programming Bound Services With Messengers" from week 2